

**Ethics and the Responsible Conduct of Research**  
**Spring 2014**  
**BMS 214**

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<b>LOCATION:</b> Wednesdays – Parnassus Thursdays – Mission Bay (Rooms listed below)
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<b>Time policy:</b> 10:00 – 11:30 AM <i>Doors close at 10:10 AM. Late arrivals will NOT be given credit for the session and will need to make up the session next year</i>
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<b>Laptop policy:</b> This course uses lectures, case studies and group discussions to teach students about some of the most important but difficult responsible practice topics facing professional researchers. Therefore, students are expected to be fully engaged in all class lectures and discussions, and the course organizers and directors ask you to refrain from using laptops, tablets and handhelds for personal or research-related work during class time.
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<b>Sign-in policy:</b> You MUST sign the sign-in sheet to get credit for the session!
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**Week 1:** Wednesday, April 9 (N729) or Thursday, April 10 (GH 106 Byers Aud.)

**Scientific Misconduct and Ethics in Science**

*Bruce Conklin – Professor, Medical Genetics and Senior Investigator, Gladstone Institutes*

Developing a well-reasoned response to an ethical problem in scientific research. The meaning of research misconduct and the regulations, policies, and guidelines that govern research misconduct in PHS-funded institutions. Includes topics such as fabrication, falsification, and plagiarism; error vs. intentional misconduct; institutional misconduct policies; identifying misconduct; procedures for reporting misconduct; protection of whistleblowers; and outcomes of investigations, including institutional and federal actions.

**Week 2:** Wednesday, April 16 (N729) or Thursday, April 17 (Rock Hall Aud.)

**Scientific Record Keeping and Data Management**

*Joe Derisi – Professor and Vice Chairman of Biochemistry and Biophysics*

Accepted practices for acquiring and maintaining research data. Proper methods for record keeping and electronic data collection and storage in scientific research. Includes defining what constitutes data; keeping data notebooks or electronic files; data privacy and confidentiality; data selection, retention, sharing, ownership, and analysis; data as legal documents and intellectual property, including copyright laws.

**Week 3:**        **Wednesday, April 23 (N729) or Thursday, April 24 (Rock Hall Aud.)**

**Science Outside of the Academy - Conflicts of Interest**

***Eric Mah – Senior Director of Research Compliance***

***Karin Immergluck – Director of the Office Technology Management***

The definition of conflicts of interest and how to handle conflicts of interest. Types of conflicts encountered by researchers and institutions. Includes topics such as conflicts associated with collaborators, publication, financial conflicts, obligations to other constituencies, and other types of conflicts.

**Week 4:**        **Wednesday, April 30 (Lange Aud. UCSF Library) or Thursday, May 1 (Rock Hall)**

**Human Subjects in Research**

***Barbara Koenig – Professor, UCSF Institute for Health and Aging***

Issues important in conducting research involving human subjects. Includes topics such as the definition of human subjects research, ethical principles for conducting human subjects research, informed consent, confidentiality and privacy of data and patient records, risks and benefits, preparation of a research protocol, institutional review boards, adherence to study protocol, proper conduct of the study, and special protections for targeted populations, e.g., children, minorities, and the elderly.

**Week 5:**        **Wednesday, May 7 (HSW 300) or Thursday, May 8 (Genentech North 114)**

**Publications and Peer Review**

***Vivian Siegel – Director of Scientific Education and Public Communication, The Broad Institute of MIT and Harvard; Past Editor-in-Chief of Cell and of Executive Director of PLoS***

The purpose and importance of scientific publication, and the responsibilities of the authors. Includes topics such as collaborative work and assigning appropriate credit, acknowledgments, appropriate citations, repetitive publications, fragmentary publication, sufficient description of methods, corrections and retractions, conventions for deciding upon authors, author responsibilities, and the pressure to publish. Also, the purpose of peer review in determining merit for research funding and publications. Includes topics such as, the definition of peer review, impartiality, how peer review works, editorial boards and ad hoc reviewers, responsibilities of the reviewers, privileged information and confidentiality

**Week 6:**        **Wednesday, May 14 (N517) or Thursday, May 15 (Rock Hall Aud)**

**Animals in Research – Animal Rights and Welfare**

***Charles Chiu – Assistant Professor in Residence - Laboratory Medicine and Medicine***

Issues important to conducting research involving animals. Includes topics such as definition of research involving animals, ethical principles for conducting research on animals, federal regulations governing animal research, institutional animal care and use committees, and treatment of animals. A case study of the ethical issues involved in the development of a marmoset infection model with titi monkey adenovirus will be presented.

**Week 7:**        **Wednesday, May 21 (N517) or Thursday, May 22 (Rock Hall Aud)**

**The Art of Mentorship and Being Mentored**

***Keith Yamamoto – Professor, Cellular and Molecular Pharm. and Vice Chancellor for Research***

The responsibilities of mentors and trainees in predoctoral and postdoctoral research programs. Includes the role of a mentor, responsibilities of a mentor, conflicts between mentor and trainee, collaboration and competition, selection of a mentor, abuse of the mentor/trainee relationship, and policies for handling misconduct.

